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This book, with analytical solutions to 260 select problems, is primarily designed for the second year core course on materials science. The treatment of the book reflects the author's experience of teaching this course comprehensively at IIT-Kanpur for a number of years to the students of engineering and 5-year integrated disciplines. The problems have been categorised into five sections covering a wide range of solid state properties. Section 1 deals with the dual representation of a wave and a particle and then comprehensively explains the behaviour of particles within potential barriers. It provides solutions to the problems that how the energy levels of a free atom lead to the formation of energy bands in solids. The statistics of the distribution of particles in different energy states in a solid has been detailed leading to the derivation of Maxwell-Boltzmann, Bose-Einstein, and Fermi-Dirac statistics and their mutual relationships. Quantitative derivation of the Fermi energy has been obtained by considering free electron energy distribution in solids and then considering Fermi-Dirac distribution as a function of temperature. The derivation of the Richardson's equation and the related work function has been quantitatively dealt with. The phenomenon of tunnelling has been dealt with in terms of quantum mechanics, whereas the band structure and electronic properties of materials are given quantitative treatment by using Fermi-Dirac distribution function. Section 2 deals with the nature of the chemical bonds, types of bonds and their effect on properties, followed by a detailed presentation of crystal structures of some common materials and a discussion on the structures of C60 and carbon nanotubes. Coordination and packing in crystal structures are considered next followed by a detailed X-ray analysis of simple crystal structures, imperfections in crystals, diffusion, phase equilibria, and mechanical behaviour. Section 3 deals with thermal and electrical properties and their mutual relationships. Calculations of Debye frequency, Debye temperature, and Debye specific heat are presented in great detail. A brief section on superconductivity considers both the conventional and the high-TC superconductors. Sections 4 and 5 deal with the magnetic and dielectric materials, considering magnetic properties from the point of view of the band theory of solids. Crystal structures of some common ferrites are given in detail. Similarly, the displacement characteristics in dielectrics are considered from their charge displacements giving rise to some degree of polarization in the materials.

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Materials Science and Engineering is designed for a first course in materials science for engineering students. The book presents essential topics in a clear and concise manner, with a wealth of illustrations and photographs. Industrial examples used throughout the book give students a look at the many ways material science and engineering are applied in the real world.

Smith's Foundations of Materials Science and Engineering, 3/e provides an eminently readable and understandable overview of engineering materials for undergraduate students. The author has carefully updated each chapter to reflect new technologies and materials types being used in industry. Through concise explanations, numerous worked-out examples, a wealth of illustrations & photos, and a brand new set of online resources, the new edition of Smith provides the most student-friendly introduction to the science & engineering of materials.The third edition features expanded chapter problem sets which now include new Design-Oriented Problems involving materials selection factors. Chapter Openers, also new to this edition, immediately engage students in each chapter's content through a highlighted, real-world application.The new Online Learning Center website will contain extensive student and instructor resources.

This is a review book for people planning to take the PE exam in Chemical Engineering. Prepared specifically for the exam used in all 50 states. It features 188 new PE problems with detailed step by step solutions. The book covers all topics on the exam, and includes easy to use tables, charts, and formulas. It is an ideal desk Companion to DAS's Chemical Engineer License Review. It includes sixteen chapters and a short PE sample exam as well as complete references and an index. Chapters include the following topical areas: material and energy balances; fluid dynamics; heat transfer; evaporation; distillation; absorption; leaching; liq-liq extraction; psychrometry and humidification, drying, filtration, thermodynamics, chemical kinetics, process control, mass transfer, and plant safety. The ideal study guide, this book brings all elements of professional problem solving together in one BIG BOOK. Ideal desk reference. Answers hundreds of the most frequently asked questions. The first truly practical, no-nonsense problems and solution book for the difficult PE exam. Full step-by-step solutions are included.

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